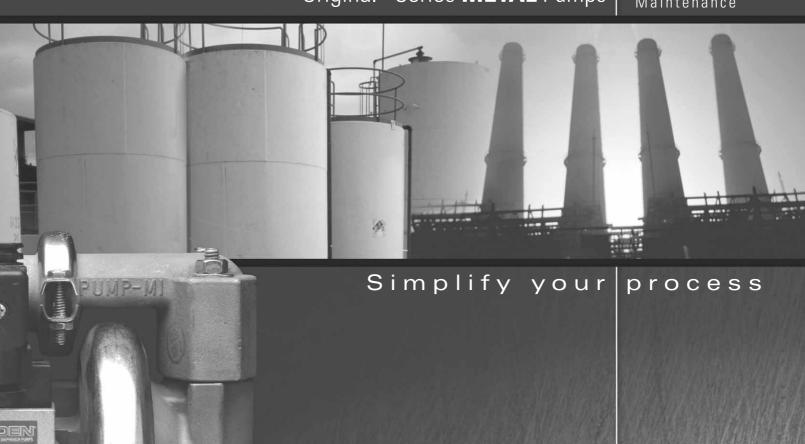
A1M

EOM

Engineering Operation & Maintenance

Original™ Series **METAL** Pumps



ACCUFLO





WIL-10050-E-02 REPLACES EOM-A1T, A1P & A1BM 12/01

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SECTION 1

A1 METAL CAUTIONS - READ FIRST!

TEMPERATURE LIMITS:

Buna-N	-12.2°C to 82.2°C	10°F to 180°F
Viton®	-40°C to 176.7°C	–40°F to 350°F
Wil-Flex™	-40°C to 107.2°C	-40°F to 225°F
Polyurethane	12.2°C to 65.6°C	10°F to 150°F
Saniflex™	-28.9°C to 104.4°C	–20°F to 220°F
PTFE	4.4°C to 148.9°C	40°F to 300°F

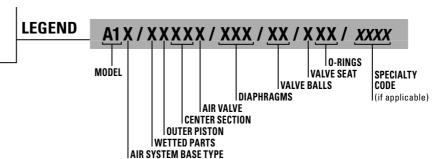
- **CAUTION:** When choosing pump materials, be sure to check the temperature limits for all wetted components.
- **CAUTION:** Maximum temperature limits are based upon mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperatures. Consult engineering guide for chemical compatibility and temperature limits.
- **CAUTION:** Always wear safety glasses when operating pump. If diaphragm rupture occurs, material being pumped may be forced out air exhaust.
- **WARNING:** Prevention of static sparking If static sparking occurs, fire or explosion could result. Pump, valves, and containers must be properly grounded when handling flammable fluids and whenever discharge of static electricity is a hazard.
- **CAUTION:** Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from pump. Disconnect all intake, discharge and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container.

- **CAUTION:** Blow out air line for 10 to 20 seconds before attaching to pump to make sure all pipe line debris is clear. Use an in-line air filter. A 5μ (micron) air filter is recommended.
- **NOTE:** Tighten all fasteners prior to installation. Fittings may loosen during transportation.
- NOTE: When installing PTFE diaphragms, it is important to tighten outer pistons simultaneously (turning in opposite directions) to ensure tight fit.
- NOTE: Before starting disassembly, mark a line from each liquid chamber to its corresponding air chamber. This line will assist in proper alignment during reassembly.
- **CAUTION:** Verify the chemical compatibility of the process and cleaning fluid to the pump's component materials in the Chemical Resistance Guide (see E4).
- **CAUTION:** Only explosion proof (NEMA 7) solenoid valves should be used in areas where explosion proof equipment is required.
- CAUTION: Do not lubricate lube-free pumps.
- CAUTION: The A1 pump is not submersible.

WILDEN PUMP DESIGNATION SYSTEM

A1 ORIGINALTM **METAL**

13 mm (1/2") Pump **Maximum Flow Rate:** 32.2 LPM (8.5 GPM)



MATERIAL CODES

AIR SYSTEM BASE TYPE

B = ADAPTER BLOCK

P = PRO-FLO®

T = TURBO-FLO™

WETTED PARTS & OUTER PISTON

AA = ALUMINUM / ALUMINUM

AZ = ALUMINUM / NO PISTON

HH = ALLOY C / ALLOY C

HZ = ALLOY C / NO PISTON

SS = STAINLESS STEEL / STAINLESS STFFI

SZ = STAINLESS STEEL / NO PISTON

CENTER SECTION

YY = NYLON

PP = POLYPROPYLENE

LL = ACETAL

AIR VALVE

A = ALUMINUM (Available for A1T only)

L = ACETAL (Available for A1B and A1P only)

P = POLYPROPYLENE (Available for A1B and A1P only)

U = UHMW PE (Available for A1B only)

DIAPHRAGMS

BNS = BUNA-N (Red Dot) FSS = SANIFLEXTM

[Hytrel® (Cream)] PUS = POLYURETHANE (Clear)

THU = PTFE W/HIGH-TEMP BUNA-N BACK-UP (White)

TNU = PTFE W/NEOPRENE BACK-UP (White)

TNL = PTFE W/NEOPRENE BACK-UP O-RING, IPD (White)

VTS = VITON® (Silver or White Dot) WFS = WIL-FLEX™ [Santoprene®

(Orange Dot)]

VALVE BALL

BN = BUNA-N (Red Dot)

FS = SANIFLEX™

[Hytrel® (Cream)]

= POLYURETHANE (Brown)

= PTFE (White) TF

VT = VITON® White Dot)

= WIL-FLEXTM [Santoprene® (Orange Dot)]

VALVE SEAT

= ALUMINUM

= ALLOY C = STAINLESS STEEL

VT = VITON® (White Dot)

VALVE SEAT O-RING

BN = BUNA-N

FS = SANIFLEXTM

[Hytrel® (Cream)]

PU = POLYURETHANE (Brown) TV = PTFE (White)

WF = WIL-FLEXTM [Santoprene®]

SPECIALTY CODES

0124	Saniflo™ FDA, Accu-Flo™, 24V DC x-proof coil,
	Intl PTR approved

- Saniflo™ FDA, Accu-Flo™, 24V DC coil
- Saniflo™ FDA, Accu-Flo™, 24V DC x-proof coil Saniflo™ FDA, Accu-Flo™, 110V AC coil
- Saniflo™ FDA, Accu-Flo™, 24V AC / 12V DC coil 0129 Saniflo™ FDA, Accu-Flo™, 24V AC / 12V DC
- x-proof coil Saniflo™ FDA, Accu-Flo™, 110V AC x-proof coil 0130
- Accu-Flo™, valve body only, no coil, BSPT, 0142 discharge facing forward
- Accu-Flo™, w/110V AC x-proof coil, BSPT Accu-Flo™, 110V AC coil, BSPT 0144
- Accu-Flo™, 110V AC x-proof coil, Wil-Gard II™ 0145 110V
- Accu-Flo™, valve body ONLY, no coil BSPT
- Accu-Flo™, x-proof valve body ONLY, 0149 no coil BSPT
- Accu-Flo[™], 24V DC coil 0150

- Accu-Flo™, 24V AC / 12V DC coil Accu-Flo™, 24V AC / 12V DC x-proof coil
- Accu-Flo™, 24V DC x-proof coil 0154
- Accu-Flo™, 110V coil
- Accu-Flo™, 110V AC x-proof coil
- 0157 Accu-Flo™, 24V DC x-proof coil, Intl., PTB approved
- Accu-Flo™, 24V DC x-proof coil, Intl., PTB approved, BSPT
- Accu-Flo™, 24V DC coil, BSPT
- Accu-Flo™, 24V DC x-proof coil, BSPT
- Accu-Flo™, 24V DC coil, BSPT 0162
- Accu-Flo™, 110V AC coil, Wil-Gard II™ sensor wires
- 0166 Accu-Flo™, 24V DC coil, Wil-Gard II™ 110V
- Accu-FloTM, 24V AC / 12V DC coil, Wil-Gard IITM 0167
- Accu-Flo™, 110V AC coil, Wil-Gard II™ 110V 0168 Accu-Flo™, 110V AC coil, PFA coated hardware

- 0170 Accu-Flo™, 110V AC x-proof coil, PFA coated hardware
- Accu-Flo™, 24V DC coil, BSPT, discharge
 - & inlet facing exhaust Accu-Flo™, 24V AC / 12V DC coil,
- PFA coated hardware
- Accu-Flo™, 24V AC / 12V DC x-proof coil, PFA coated hardware
- Accu-Flo™, 24V AC / 12 V DC
- x-proof coil, Wil-Gard II™ 110V
- Accu-Flo™, 24V DC coil, PFA coated hardware Accu-Flo™, 24V DC x-proof coil,
- PFA coated hardware
- Adapter block, no muffler,
- Pro-Flo® center Section Adapter block, no muffler,
- standard center section
- Adapter block, no muffler, turbo center section

NOTE: MOST ELASTOMERIC MATERIALS USE COLORED DOTS FOR IDENTIFICATION.

THE THREE ACCU-FLO™ OPTIONS AVAILABLE:

1. AxT: This is the same Accu-Flo configuration that has been available from Wilden since March 1994. An aluminum solenoid valve is attached directly to a T-series center section and the shaft/inner piston configuration is altered.

2. AxP: This option uses a plastic (polypropylene or acetal) spacer that is assembled between the Pro-Flo® air valve and the Pro-Flo® center section. The same solenoid operator - coil assembly that is found on AxT pumps is assembled on the plastic spacer discussed above for electronic interface. This spacer together with the Pro-Flo® air valve replaces the aluminum air valve used in the AxT with a more chemically resistant option. Spacers will be available in the 1/4", 1/2", and 1" sizes. The use of the Pro-Flo® ADS provides additional

flow in most applications (refer to EOM for details). The AxP provides the Pro-Flo® benefits of lower start-up pressure, reduced blow-by, and increased life. 3. AxB: This option uses an Adapter Block in place of an air valve. A user supplied, 4-way pneumatic valve must be used in conjunction with this technology. This configuration enables the solenoid valve to be remotely installed, preventing chemical attack in very aggressive environments. Adapter Blocks are available for both the T and P-series center sections in all pump sizes. (See EOM AxB for details.)

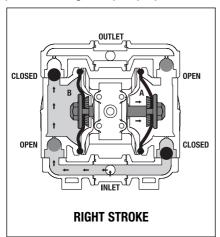
Note: The "x" in the above Accu-Flo descriptions are used in place of a pump model size. See Pump Designation System chart above.

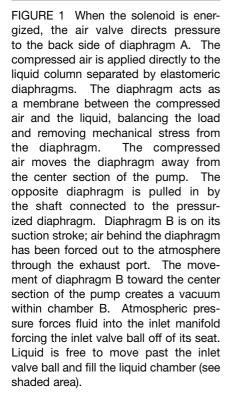
Viton® is a registered trademark of DuPont Dow Elastomers.

SECTION 3

THE WILDEN PUMP — HOW IT WORKS

The Wilden diaphragm pump is an air-operated, positive displacement, self-priming pump. These drawings show the flow pattern through the pump upon its initial stroke. It is assumed the pump has no fluid in it prior to its initial stroke.





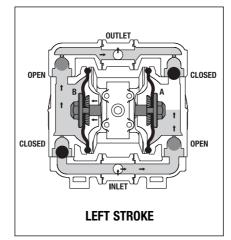


FIGURE 2 When the solenoid valve is deenergized, the air valve redirects pressurized air to the back side of diaphragm B. The pressurized air forces diaphragm B away from the center section while pulling diaphragm A to the center section. Diaphragm B is now on its discharge stroke. Diaphragm B forces the inlet valve ball onto its seat due to the hydraulic forces developed in the liquid chamber and manifold of the pump. These same hydraulic forces lift the discharge valve ball off of its seat, while the opposite discharge valve ball is forced onto its seat, forcing fluid to flow through the pump discharge. The movement of diaphragm A toward the center section of the pump creates a vacuum within liquid chamber A. Atmospheric pressure forces fluid into the inlet manifold of the pump. The inlet valve ball is forced off of its seat allowing the fluid being pumped to fill the liquid chamber.

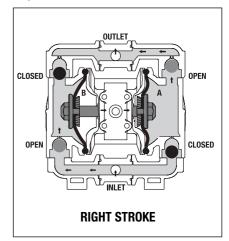
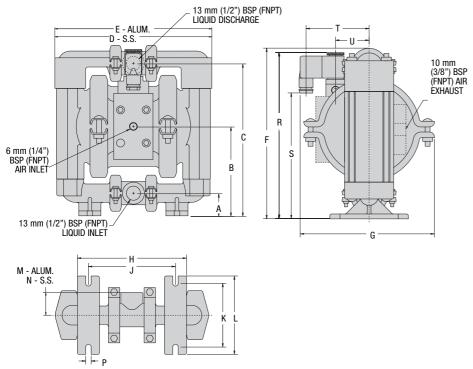


FIGURE 3 Once the solenoid valve is reenergized the air is once again directed to the back side of diaphragm A, which starts diaphragm B on its exhaust stroke. As the pump reaches its original starting point, each diaphragm has gone through one intake and one discharge stroke. This constitutes one complete pumping cycle. The pump may take several cycles to completely prime depending on the conditions of the application.

SECTION 4A

DIMENSIONAL DRAWING

A1T METAL ACCU-FLO™

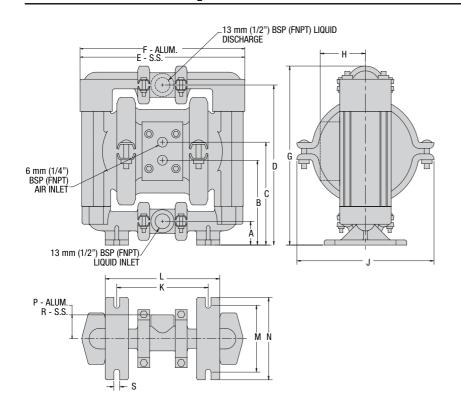


DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
Α	28	1.1
В	109	4.3
С	198	7.8
D	203	8.0
E	208	8.2
F	224	8.8
G	175	6.9
Н	140	5.5
J	112	4.4
K	84	3.3
L	102	4.0
M	30	1.2
N	30	1.2
Р	8	0.3
R	226	8.9
S	163	6.4
T	81	3.2
U	46	1.8

SECTION 4B

DIMENSIONAL DRAWING A1B METAL (T-SERIES CENTER SECTION)

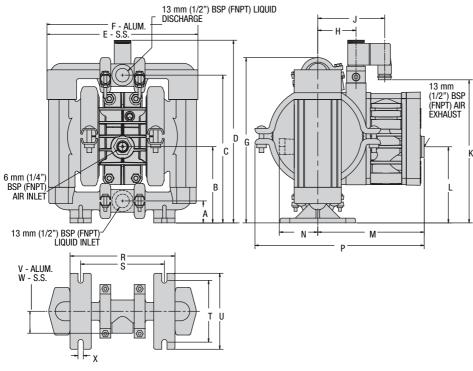


DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
Α	28	1.1
В	104	4.1
С	127	5.0
D	198	7.8
Е	203	8.0
F	208	8.2
G	224	8.8
Н	56	2.2
J	175	6.9
K	140	5.5
L	112	4.4
M	84	3.3
N	102	4.0
Р	30	1.2
R	30	1.2
S	8	0.3

SECTION 4C

DIMENSIONAL DRAWING A1P METAL ACCU-FLOTM

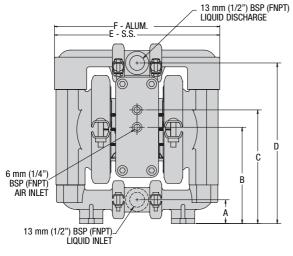


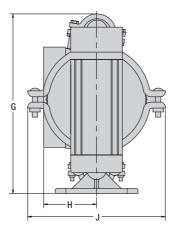
DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
Α	28	1.1
В	102	4.0
С	198	7.8
D	241	9.5
Е	203	8.0
F	208	8.2
G	224	8.8
Н	51	2.0
J	89	3.5
K	191	7.5
L	102	4.0
M	142	5.6
N	56	2.2
Р	226	8.9
R	140	5.5
S	112	4.4
Т	84	3.3
U	102	4.0
V	30	1.2
W	30	1.2
Х	8	0.3

SECTION 4D

DIMENSIONAL DRAWINGA1B METAL (P-SERIES CENTER SECTION)



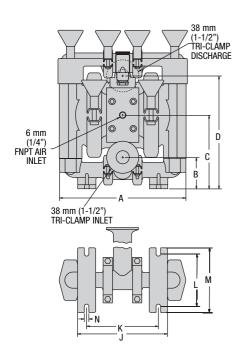


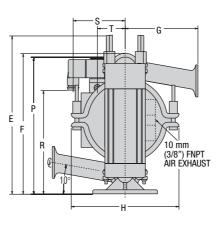
DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
Α	28	1.1
В	117	4.6
С	137	5.4
D	198	7.8
E	203	8.0
F	208	8.2
G	224	8.8
Н	64	2.5
J	175	6.9
K	140	5.5
L	112	4.4
М	84	3.3
N	102	4.0
Р	8	0.3
R	30	1.2
S	30	1.2

SECTION 4E

DIMENSIONAL DRAWING A1T METAL SANIFLOFDA ACCU-FLOTM



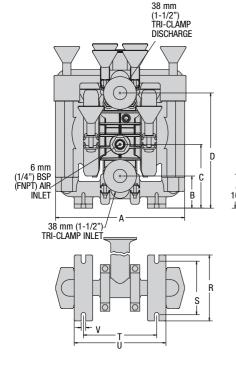


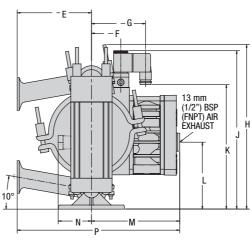
DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
Α	203	8.0
В	48	1.9
С	109	4.3
D	175	6.9
E	254	10.0
F	224	8.8
G	114	4.5
Н	175	6.9
J	140	5.5
K	112	4.4
L	84	3.3
М	102	4.0
N	8	0.3
Р	226	8.9
R	163	6.4
S	81	3.2
T	46	1.8

SECTION 4F

DIMENSIONAL DRAWING A1P METAL SANIFLOFPA ACCU-FLOTM





DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)
Α	203	8.0
В	48	1.9
С	102	4.0
D	175	6.9
E	114	4.5
F	46	1.8
G	81	3.2
Н	254	10.0
J	226	8.9
K	163	6.4
L	102	4.0
M	142	5.6
N	56	2.2
Р	226	8.9
R	102	4.0
S	84	3.3
T	112	4.4
U	140	5.5
V	8	0.3

SECTION 5A

PERFORMANCE CURVES A1T METAL RUBBER-FITTED

Height	224 mm (8.8")
Width	208 mm (8.2")
Depth	175 mm (6.9")
Est. Ship Weight	Aluminum 6 kg (13 lbs)
Stair	less Steel 9 kg (20 lbs)
	Alloy C 10 kg (22 lbs)
Air Inlet	
Inlet	13 mm (1/2")
Outlet	13 mm (1/2")
Suction Lift	9.7 m Dry (31.8')
	4.5 m Wet (14.7')
Displacement per	
Stroke	0.05 I (.013 gal.)1

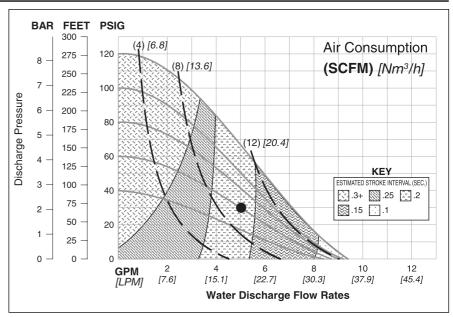
¹Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2 bar (30 psig) head pressure.

Max. Flow Rate............... 35.6 lpm (9.4 gpm)

Max. Size Solids 1.6 mm (1/16")

Example: To pump 18.9 lpm (5 gpm) against a discharge pressure head of 2.1 bar (30 psig) requires 4.1 bar (60 psig) and 15.3 Nm³/h (9.0 scfm) air consumption. (See dot on chart.)

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

SECTION 5B

Height

PERFORMANCE CURVES A1T METAL PTFE-FITTED

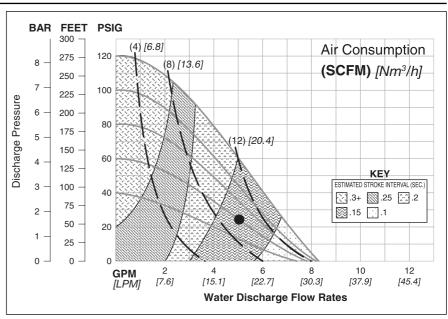
.224 mm (8.8")

1101g11t
Width208 mm (8.2")
Depth 175 mm (6.9")
Est. Ship Weight Aluminum 6 kg (13 lbs)
Stainless Steel 9 kg (20 lbs)
Alloy C 10 kg (22 lbs)
Air Inlet 6 mm (1/4")
Inlet13 mm (1/2")
Outlet13 mm (1/2")
Suction Lift 3.5 m Dry (11.3')
9.3 m Wet (30.6')
Displacement per
Stroke 0.05 I (.014 gal.) ¹
Max. Flow Rate31.4 lpm (8.3 gpm)
Max. Size Solids1.6 mm (1/16")
¹ Displacement per stroke was calculated at 4.8

Example: To pump 18.9 lpm (5 gpm) against a discharge pressure head of 1.7 bar (25 psig) requires 4.1 bar (60 psig) and 16.2 Nm³/h (9.5 scfm) air consumption. (See dot on chart.)

bar (70 psig) air inlet pressure against a 2 bar (30

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

psig) head pressure.

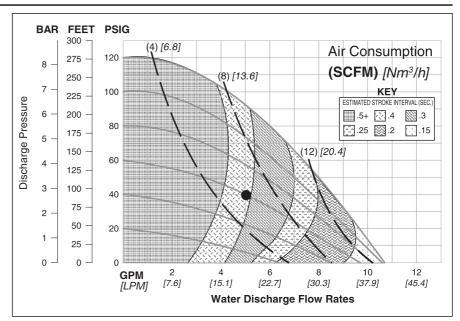
SECTION 5C

PERFORMANCE CURVES A1P METAL RUBBER-FITTED

Height
Depth 226 mm (8.9")
Est. Ship Weight Aluminum 6 kg (13 lbs)
Stainless Steel 9 kg (20 lbs)
Alloy C 10 kg (22 lbs)
Air Inlet 6 mm (1/4")
Inlet13 mm (1/2")
Outlet
Suction Lift
9.7 m Wet (31.8')
Displacement per
Stroke 0.12 I (.031 gal.) ¹
Max. Flow Rate40.5 lpm (10.7 gpm)
Max. Size Solids
¹ Displacement per stroke was calculated at 4.8 Bar
(70 psig) air inlet pressure against a 2 Bar (30 psig) head pressure.
Example: To pump 18.9 lpm (5 gpm) against

Example: To pump 18.9 lpm (5 gpm) against a discharge pressure head of 2.8 bar (40 psig) requires 4.1 bar (60 psig) and 10.2 Nm³/h (6.0 scfm) air consumption. (See dot on chart.)

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

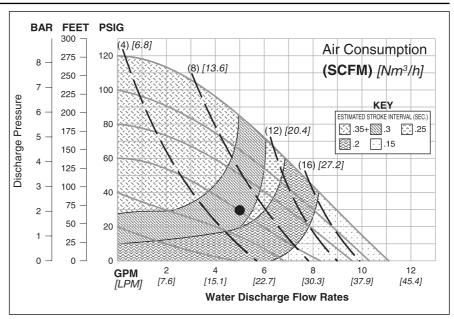
SECTION 5D

PERFORMANCE CURVES A1P METAL PTFE-FITTED

Width Depth Est. Ship Weight	
Inlet Outlet	Alloy C 10 kg (22 lbs)
Max. Flow Rate Max. Size Solids ¹Displacement per strok	

Example: To pump 18.9 lpm (5 gpm) against a discharge pressure head of 2.1 bar (30 psig) requires 4.1 bar (60 psig) and 10.2 Nm³/h (6.0 scfm) air consumption. (See dot on chart.)

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



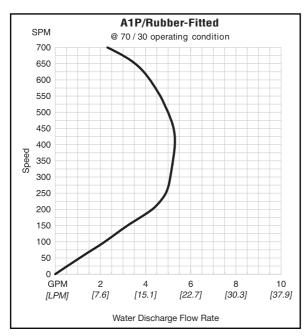
Flow rates indicated on chart were determined by pumping water.

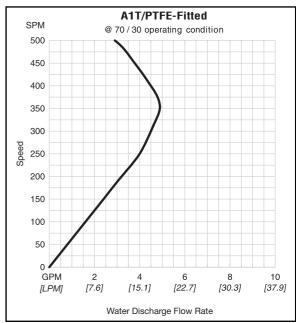
For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

SECTION 6A

70/30 OPERATING CONDITION A1T METAL ACCU-FLOTM

These curves demonstrate the flow created when the stroke rate is modified under static air and fluid pressure condition. This curve can be applied to different pressure conditions to estimate the change in flow due to stroke rate.

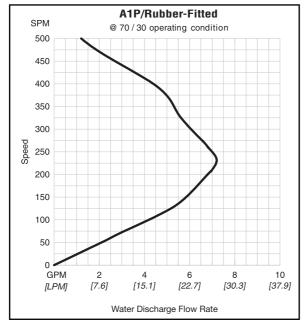


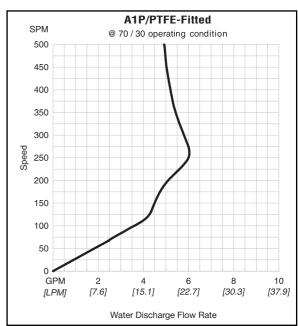


SECTION 6B

70/30 OPERATING CONDITION A1P METAL ACCU-FLOTM

These curves demonstrate the flow created when the stroke rate is modified under static air and fluid pressure condition. This curve can be applied to different pressure conditions to estimate the change in flow due to stroke rate.





SECTION 7A

INSTALLATION

All Wilden pumps are manufactured with a variety of materials for the air distribution system, liquid path and elastomers. This variety is offered to satisfy the temperature, chemical compatibility, abrasion and flex life requirements for most applications. Consult manual for available materials and temperature limitations for this pump model.

For Accu-Flo™ models only, all wiring used to operate the pump should be placed and connected according to all applicable electrical codes. It is important that the wiring be of adequate gauge to carry the current required to operate the pump. In addition, it is necessary that the electrical power supply be large enough to supply the current required to operate the pump. Wiring should be above ground level if possible (in case of fluid spill or leakage), and all wiring and connections which could become wet or damp should be made watertight.

The suction pipe used for installation should be sized equal to, or greater than, the pump liquid inlet connection. This will minimize pump cavitation and potential blockages of the pump inlet. The discharge piping should also be sized equal to, or greater than, the pump liquid discharge connection. If the pump is to be used in a self-priming application, be sure that all connections are airtight and that the suction lift is within the pump's ability. (Consult manual for suction lift information.) Note: Materials of construction and elastomer materials have an effect on suction lift parameters.

INSTALLATION: Months of careful planning, study and selection efforts can result in unsatisfactory pump performance if installation details are left to chance.

Premature failure and long term dissatisfaction can be avoided if reasonable care is exercised throughout the installation process.

LOCATION: Noise, safety, and other logistical factors usually dictate that "utility" equipment be situated away from the production floor. Multiple installations with conflicting requirements can result in congested utility areas, leaving few choices for siting additional pumps.

Within the framework of these and other existing conditions, every pump should be located in such a way that four key factors are balanced against each other to maximum advantage.

- 1. ACCESS: First of all, the location should be accessible. If it is easy to reach the pump, maintenance personnel will have an easier time carrying out routine inspections and adjustments. Should major repairs become necessary, ease of access can play a key role in speeding the repair process and reducing total downtime.
- 2. AIR SUPPLY: Every pump location should have an air line large enough to supply the volume of air necessary to achieve the desired pumping rate. (Consult manual for performance information.) The use of an air filter before the pump will ensure that the majority of pipeline contaminants will be eliminated. For best results, the pump should use an air filter, regulator system.

Sound levels are reduced below OSHA specifications using the standard Wilden muffler.

- 3. ELEVATION: Selecting a site that is well within the pump's dynamic lift capability will assure that a loss-of-prime condition will be avoided. In addition, pump efficiency can be adversely effected if proper attention is not given to site location.
- 4. PIPING: Final determination of the pump site should not be made until the piping problems of each possible location have been evaluated. The impact of current and future installations should be considered ahead of time to make sure that inadvertent restrictions are not created for any remaining sites.

The best choice possible will be a site involving the shortest and straightest hook-up of suction and discharge piping. Unnecessary elbows, bends, and fittings should be avoided. Pipe sizes should be selected so as to keep friction losses within practical limits. All piping should be supported independently of the pump to avoid damage. In addition, the piping should be aligned so as to avoid placing stress on the pump fittings.

Flexible hose can be installed to aid absorbing the forces created by the natural reciprocating action of the pump. If the pump is to be bolted down to a solid location, a mounting pad placed between the pump and the foundation will assist in minimizing pump vibration. Flexible connections between the pump and rigid piping will also assist in minimizing pump vibration. If quick-closing valves are installed at any point in the discharge system, or if pulsation within a system becomes a problem, a Wilden Equalizer surge dampener should be installed to protect the pump, piping and gauges from surges and water hammer. Installation of a tee at the discharge of the pump will allow the addition of an Equalizer to the system at a later date without requiring piping modifications. Installation of inlet and discharge isolation valves are also recommended to make service and repair easier.

Pumps in service with a positive suction head are most efficient when pressure is limited to 0.4-0.7 bar (7-10 psig). Premature diaphragm failure may occur if positive suction exceeds these recommended pressures.

A STRAINER SHOULD BE USED ON THE SUCTION LINE OF THE SYSTEM IF THERE IS A POSSIBILITY THAT SOLIDS ENTERING THE PUMP MAY EXCEED THE PUMP'S SOLIDS HANDLING CAPABILITIES.

PLEASE READ AND FOLLOW ALL CAUTIONS NOTED IN THIS MANUAL.

Pump should be thoroughly flushed before installing into process line.

Blow out air line for 10 to 20 seconds before attaching pump to clear all pipe line debris.

SECTION 7B

OPERATING PRINCIPLES BEHIND ACCU-FLOTH PUMPS

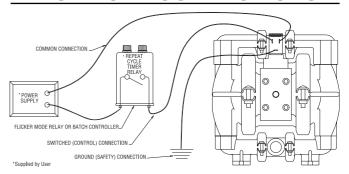
When the solenoid is not powered, one air chamber is pressurized with air, while the opposite chamber is exhausted. When electric power is applied, the solenoid shifts, and the pressurized air chamber is exhausted while the opposite chamber is pressurized. By alternately applying and removing power, the solenoid-operated pump runs like a standard Wilden pump.

The speed of the pump is controlled electrically. Since each stroke is controlled by an electrical signal, the pump is ideal for batching and other electrically controlled dispensing applications.

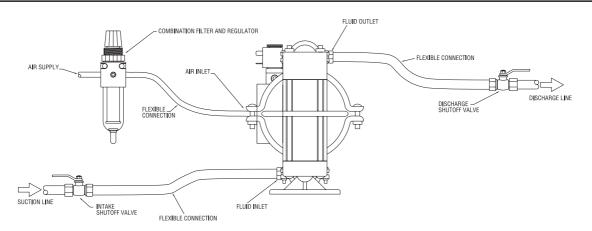
Although the speed of the pump is controlled electrically, the air pressure is important. Air pressure displaces the fluid, and if the pressure is insufficient to complete the physical stroke before an electronic impulse signals the pump to shift, the stroke will not be completed, and the displacement per stroke will be reduced. This does not harm the unit in any way, but it may cause inaccuracy when attempting to batch specific quantities with high precision if this effect is not taken into account.

There are three coil voltage options available. One coil allows for 24V DC operation. The second coil option allows for operation with either 12V DC or 24V AC at 60 Hz and the third coil option allows for 110V AC operation.

ELECTRICAL CONNECTIONS



PLUMBING CONNECTIONS



SECTION 7C - ACCU-FLO™

SUGGESTED OPERATION AND MAINTENANCE INSTRUCTIONS

A red button on the side of the air valve is a manual override; when actuated it will shift the valve as if an electric current had actuated the solenoid.

The pump will not shift reliably unless the minimum supply pressure is provided. For the A1T, the minimum supply pressure for reliable operation is 2.7 bar (40 psig).

RECORDS: When service is required, a record should be made of all necessary repairs and replacements. Over a period of time, such records can become a valuable tool for predicting and preventing future maintenance problems and unscheduled downtime. In addition, accurate records make it possible to identify pumps that are poorly suited to their applications.

MAINTENANCE AND INSPECTIONS: Since each application is unique, maintenance schedules may be different for every pump. Frequency of use, line pressure, viscosity and abrasiveness of process fluid all effect the parts life of a Wilden pump. Periodic inspections have been found to offer the best means for preventing unscheduled pump downtime. Personnel familiar with the pump's construction and service should be informed of any abnormalities that are detected during operation. Internal maintenance is not recommended for Accu-Flo™ solenoid air valves. When worn or damaged, a new air valve body, coil or terminal connector must be purchased. Please consult section 9 for part numbers.

SECTION 7D - ACCU-FLOTM

TROUBLESHOOTING

Pump will not run.

- 1. Check for pressurized air at the inlet.
- 2. Check air inlet and filter for debris.
- 3. Connect a test lamp to the two wires which run to pump and ensure that the lamp cycles on and off.
- 4. Make sure that the air valve manual override (small red knob on front of valve) is switched to the "0" position.
- Check pilot pressure vent at the top of the operator/coil assembly to ensure that it is not clogged.
- Check for a worn out air valve. If air continually blows out the exhaust in very large quantities, the air valve seals may be worn beyond their ability to function. In this case, the valve must be replaced.

NOTE: Before the valve is scrapped, it is possible that it may be saved by completely disassembling the valve, cleaning all components and relubricating the valve.

Pump runs but little or no fluid comes out.

- 1. Check that the discharge isolation valve is not closed.
- Check that the electronic signal is slow enough that the pump is able to complete each physical stroke before it is signaled to change direction. The time required to complete the stroke is determined by a variety of factors which include fluid viscosity and head pressure.
- 3. Check for pump cavitation; slow pump speed down to match the thickness of the material being pumped.
- Check for sticking ball check valves. If the material being pumped is not compatible with the pump elastomers, swelling may occur. Replace ball check valves and orings with the proper elastomers.
- Check to make sure that all suction connections are air tight, and that the clamp bands are properly tightened.

Pump air passages blocked with ice.

Check for excessive moisture in compressed air line. As the air expands out the exhaust during the operation of the pump, water vapor entrapped in the compressed air can freeze and block the air passageways in the pump. If this occurs, it may be necessary to install a coalescing filter, an air dryer, or a hot air generator for the compressed air.

Air bubbles in pump discharge.

- 1. Check for ruptured diaphragm.
- Check tightness of clamp bands, and the integrity of the o-rings, especially at intake manifold.

Product comes out of the air exhaust.

- 1. Check for diaphragm rupture.
- 2. Check tightness of piston plates to shaft.

Pump rattles.

1. Create false discharge head or suction lift.

Solenoid buzzes or solenoid burnout.

1. Incorrect voltage, faulty or dirty solenoid.

Solenoid valve fails to shift electrically but shifts with manual override.

1. Incorrect voltage, defective coil or wiring.

Solenoid valve fails to shift electrically or with manual override.

 Inadequate air supply, contamination, inadequate or improper lubrication, mechanical binding in the valve.

Valve shifts but fails to return.

1. Broken spring, mechanical binding.

Excessive leaking from air valve vent.

1. Worn seals in air valve.

SECTION 8A

A1 METAL DIRECTIONS FOR DISASSEMBLY/REASSEMBLY

CAUTION: Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from the pump. Disconnect all intake, discharge, and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container. Be aware of any hazardous effects of contact with your process fluid.

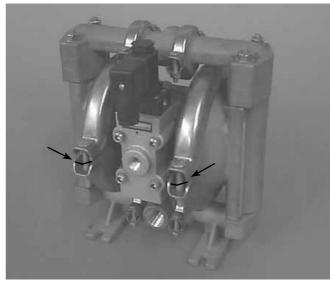
The Wilden model A1 has a 13 mm (1/2") inlet and outlet. The single-piece center section, consisting of center block and air chambers, is molded of nylon, polypropylene or acetal. All fasteners and hardware are stainless steel. All o-rings used in the pump are of a special material and shore hardness which should only be replaced with factory-supplied parts.

TOOLS REQUIRED:

5/16" Wrench 3/8" Box Wrench 7/16" Wrench 3/16" Allen Wrench Adjustable Wrench

Vise equipped with soft jaws (such as plywood, plastic or other suitable material)

NOTE: The model used for these instructions incorporates PTFE diaphragms, balls, and seats. Models with rubber diaphragms, balls and seats are the same except where noted.

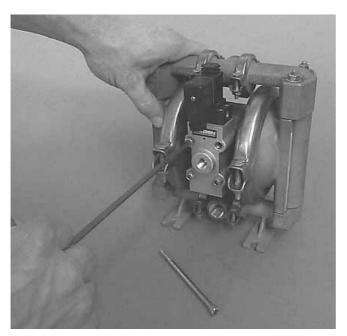


DISASSEMBLY:

Figure 1

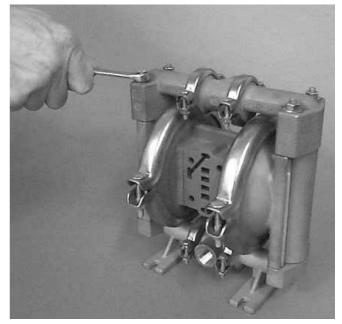
Step 1.

Before starting disassembly, mark a line from each liquid chamber to its corresponding air chamber. This line will assist in proper alignment during reassembly.



Step 2. Figure 2

Using the 3/16" Allen Wrench, remove air valve bolts. Inspect air valve assembly for wear or damage.



Step 3. Figure 3

Utilizing the 3/8" box wrench, start by removing the four long carriage bolts that hold the top and bottom manifolds to the center section.



Step 4. Figure 4

Remove the top manifold and lift the center section off the inlet manifold.



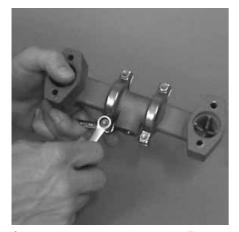
Step 5. Figure 5

Remove the discharge valve balls, seats and o-rings from the discharge manifold and inspect for nicks, gouges, chemical attack or abrasive wear. Replace worn parts with genuine Wilden parts for reliable performance.



Step 6. Figure 6

Remove and inspect the seat, seat o-ring, and valve ball from the bottom of the liquid chamber. Check for nicks, gouges, chemical attack or abrasive wear. Replace worn parts with genuine Wilden parts for reliable performance.



Step 7. Figure 7

Normally the inlet and discharge manifold should not be disassembled during regular pump maintenance. Should this be necessary completely remove and disassemble manifold clamp bands.



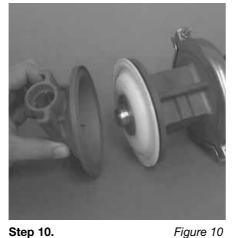
Step 8. Figure 8

Inspect o-rings for wear or damage and replace if necessary.



Step 9. Figure 9

Use a 7/16" wrench to remove one set of clamp bands that secure one liquid chamber to the one-piece center section.



Step 10.

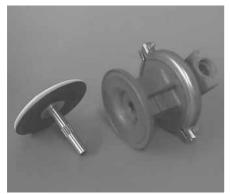
Lift the liquid chamber away from the center section to expose the diaphragm and outer piston.



Step 11.

Figure 11

Using an adjustable wrench, or by rotating the diaphragm by hand, remove the diaphragm assembly from the center section.





NOTE: Due to varying torque values, one of the following two situations may occur:

1) The outer piston, diaphragm and inner piston remain attached to the shaft and the entire assembly can be removed from the center section.



Step 12B. Figure 12B

2) The outer piston, diaphragm, inner piston, and disc spring separate from the shaft which remains connected to the opposite side diaphragm assembly (Figure 12B). PTFE-fitted pumps come standard with back-up diaphragms. **NOTE:** Disc spring not shown on Figure 12B.



Step 13. *Figure 13*

To remove the diaphragm assembly from the shaft, secure shaft with soft jaws (a vise fitted with plywood or other suitable material) to ensure shaft is not nicked, scratched, or gouged. Using an adjustable wrench, remove diaphragm assembly from shaft. Inspect all parts for wear and replace with genuine Wilden parts if necessary.

SECTION 8B

REASSEMBLY HINTS & TIPS

ASSEMBLY:

Upon performing applicable maintenance to the air distribution system, the pump can now be reassembled. Please refer to the disassembly instructions for photos and parts placement. To reassemble the pump, follow the disassembly instructions in reverse order. The air distribution system needs to be assembled first, then the diaphragms and finally the wetted path. Please find the applicable torque specifications on this page. The following tips will assist in the assembly process.

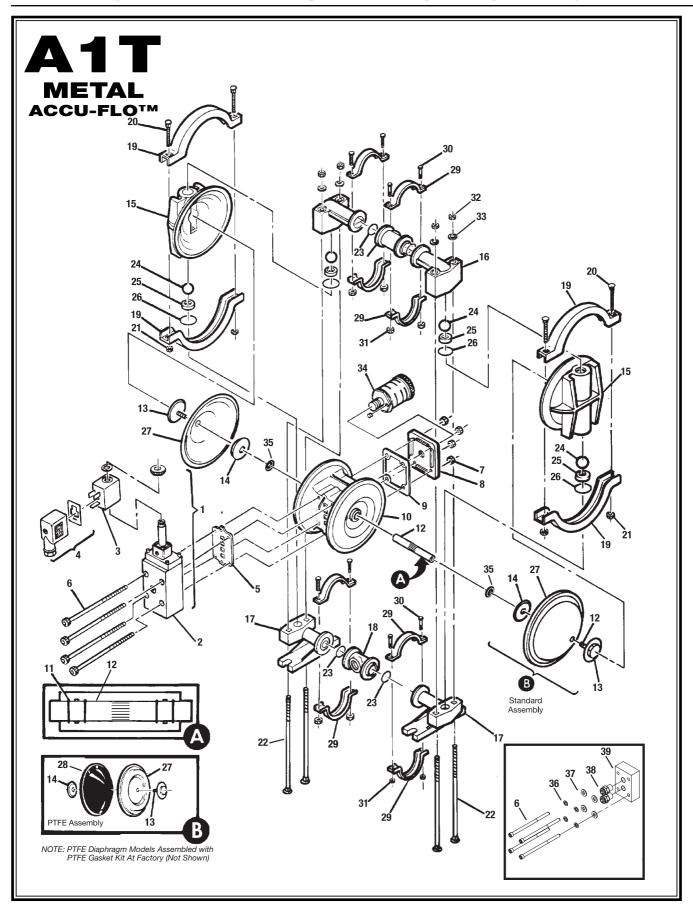
- Clean the inside of the center section shaft bushing to ensure no damage is done to new seals.
- Stainless bolts should be lubed to reduce the possibility of seizing during tightening.
- Level the water chamber side of the intake/discharge manifold to ensure a proper sealing surface. This is most easily accomplished by placing them on a flat surface prior to tightening their clamp bands to the desired torque (see this page for torque specs).
- Be sure to tighten outer pistons simultaneously on PTFEfitted pumps to ensure proper torque values.

- Ensure proper mating of liquid chambers to manifolds prior to tightening vertical bolts. Overhang should be equal on both sides.
- Apply a small amount of Loctite 242 to the steel bore of the shaft from the diaphragm assembly.

MAXIMUM TORQUE SPECIFICATIONS

Description of Part	Metal Pumps
Solenoid Air Valve (Turbo-Flo™)	3.4 N⋅m [30 in-lbs]
Solenoid Air Valve (Pro-Flo®)	3.1 N·m [27 in-lbs]
Adapter Block Air Valve	3.1 N·m [27 in-lbs]
Outer Piston	14.1 N·m [125 in-lbs]
Small Clamp Band	1.7 N·m [15 in-lbs]
Large Clamp Band (Rubber-fitted)	9.0 N·m [80 in-lbs]
Large Clamp Band (PTFE-fitted)	13.6 N·m [120 in-lbs]
Vertical Bolts	14.1 N·m [125 in-lbs]

EXPLODED VIEW/PARTS LISTING



A1 METAL ACCU-FLO TM — DC

				Rubber-Fitted			PTFE-Fitted		Food Pro	cessing
		Qty.							A1T/SSYYA/0125	A1T/SSYYA/0125
		Per	A1T/AAYYA/0150	A1T/SSYYA/0150	A1T/HHYYA/0150	A1T/AAYYA/0150	A1T/SSYYA/0150	A1T/HHYYA/0150	Saniflex™	PTFE
Item	Part Description	Pump	P/N							
1	24 Volt DC Valve Assembly ¹	1	01-2000-99-150	01-2000-99-150	01-2000-99-150	01-2000-99-150	01-2000-99-150	01-2000-99-150	01-2000-99-150	01-2000-99-150
2	Main Valve Body	1	01-2000-01-150	01-2000-01-150	01-2000-01-150	01-2000-01-150	01-2000-01-150	01-2000-01-150	01-2000-01-150	01-2000-01-150
3	24 Volt DC Coil	1	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150
4	Terminal Connector	1	00-2130-99	00-2130-99	00-2130-99	00-2130-99	00-2130-99	00-2130-99	00-2130-99	00-2130-99
5	Air Valve Gasket	11	01-2600-52	01-2600-52	01-2600-52	01-2600-52	01-2600-52	01-2600-52	01-2600-52	01-2600-52
6	Air Valve Cap Screw	4	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03
7	Air Valve Cap Screw Nut	4	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03
8	Muffler Plate	11	01-3180-23	01-3180-23	01-3180-23	01-3180-23	01-3180-23	01-3180-23	01-3180-23	01-3180-23
9	Muffler Plate Gasket	1	01-3500-52	01-3500-52	01-3500-52	01-3500-52	01-3500-52	01-3500-52	01-3500-52	01-3500-52
10	Center Section	1	01-3153-23	01-3153-23	01-3153-23	01-3153-23	01-3153-23	01-3153-23	01-3153-23	01-3153-23
11	Center Block Glyd™ Ring	4	01-3220-55	01-3220-55	01-3220-55	01-3220-55	01-3220-55	01-3220-55	01-3220-55	01-3220-55
12	Shaft	1	01-3800-03-07	01-3800-03-07	01-3800-03-07	01-3800-03-07	01-3800-03-07	01-3800-03-07	01-3800-03-07	01-3800-03-07
13	Shaft Stud (not shown)	2	N/A	01-6150-03	01-6150-03	N/A	01-6150-03	01-6150-03	01-6150-03	01-6150-03
14	Pistons/Outer	2	01-4570-01	01-4570-03	01-4570-04	01-4570-01	01-4570-03	01-4570-04	01-4570-03	01-4570-03
15	Pistons/Inner	2	01-3710-01-150	01-3710-01-150	01-3710-01-150	01-3710-01-150	01-3710-01-150	01-3710-01-150	01-3710-01-150	01-3710-01-150
16	Liquid Chamber	2	01-5000-01	01-5000-03	01-5000-04	01-5000-01	01-5000-03	01-5000-04	01-5000-03	01-5000-03
17	Discharge Manifold Elbow	2	01-5230-01	01-5230-03	01-5230-04	01-5230-01	01-5230-03	01-5230-04	01-5230-03	01-5230-03
18	Inlet Manifold Elbow	2	01-5220-01	01-5220-03	01-5220-04	01-5220-01	01-5220-03	01-5220-04	01-5220-03	01-5220-03
19	Manifold "T" Section	2	01-5160-01	01-5160-03	01-5160-04	01-5160-01	01-5160-03	01-5160-04	01-5160-03-70	01-5160-03-70
20	Clamp Band (Large) Assy.	2	01-7300-03	01-7300-03	01-7300-03	01-7300-03	01-7300-03	01-7300-03	01-7300-03	01-7300-03
21	Large Clamp Band Bolt	4	01-6070-03	01-6070-03	01-6070-03	01-6070-03	01-6070-03	01-6070-03	01-6070-03	01-6070-03
22	Large Clamp Band Nut	4	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6650-03-70	04-6650-03-70
23	Vertical Bolt	4	01-6080-03	01-6080-03	01-6080-03	01-6080-03	01-6080-03	01-6080-03	01-6080-03	01-6080-03
24	Manifold O-Ring	4	*	*	*	01-1300-55	01-1300-55	01-1300-55	01-1300-55	01-1300-55
25	Valve Ball	4	*	*	*	01-1080-55	01-1080-55	01-1080-55	01-1080-56	01-1080-55
26	Valve Seat	4	01-1120-01	01-1120-03	01-1120-04	01-1120-01	01-1120-03	01-1120-04	01-1120-03	01-1120-03
27	Valve Seat O-Ring	4	*	*	*	01-1200-55	01-1200-55	01-1200-55	01-1200-56	01-1200-55
28	Diaphragm	2	*	*	*	01-1010-55	01-1010-55	01-1010-55	01-1010-56	01-1010-55
29	Back-up Diaphragm	2	N/R	N/R	N/R	01-1060-51	01-1060-51	01-1060-51	N/R	01-1060-51
30	Clamp Band (Small) Assy.	4	01-7100-03	01-7100-03	01-7100-03	01-7100-03	01-7100-03	01-7100-03	01-7100-03	01-7100-03
31	Small Clamp Band Bolt 1"	8	01-6101-03	01-6101-03	01-6101-03	01-6101-03	01-6101-03	01-6101-03	01-6101-03	01-6101-03
32	Small Clamp Band Nut	8	01-6400-03	01-6400-03	01-6400-03	01-6400-03	01-6400-03	01-6400-03	01-6400-03	01-6400-03
33	Vertical Bolt Nut	4	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6650-03-70	04-6650-03-70
34	Vertical Bolt Washer	4	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03
35	Muffler	1	01-3510-99	01-3510-99	01-3510-99	01-3510-99	01-3510-99	01-3510-99	01-3510-99	01-3510-99
36	Disc Spring	2	01-6802-08	01-6802-08	01-6802-08	01-6802-08	01-6802-08	01-6802-08	01-6802-08	01-6802-08
37	Lock Washer	4	50-6760-03	50-6760-03	50-6760-03	50-6760-03	50-6760-03	50-6760-03	50-6760-03	50-6760-03
38	Flat Washer	4	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03
39	Fitting Air Inlet	2	00-2170-20	00-2170-20	00-2170-20	00-2170-20	00-2170-20	00-2170-20	00-2170-20	00-2170-20
40	Adapter Block	4	01-2150-XX							
41	Vent Plug (not shown)	1	01-7020-17	01-7020-17	01-7020-17	01-7020-17	01-7020-17	01-7020-17	01-7020-17	01-7020-17

¹Air valve assembly includes items 1, 2 and 3.

*Refer to end of section for elastomer options.

1025 Specialty Code = Saniflo^{FDA} w/24V DC Solenoid

1050 Specialty Code = 24V DC Solenoid

NOTE: For pumps fitted with wing nuts and tri-clamp connections please contact factory for exploded view drawing and part numbers.

All boldface items are primary wear parts.

SOLENOID-OPERATED VALVE ASSEMBLY OPTIONS (CONSISTS OF VALVE BODY, COIL AND CONNECTOR)

Pump Models Designating Specialty Code #	Part Number	Description
151	01-2000-99-151	24V AC / 12V DC Valve Assembly
153	01-2000-99-153	24V AC / 12V DC Valve Assembly (Nema 7)
150	01-2000-99-150	24V DC Valve Assembly
154	01-2000-99-154	24V DC Valve Assembly (Nema 7)
157	01-2000-99-157	International 24V DC Valve Assembly**
155	01-2000-99-155	110V AC Valve Assembly
156	01-2000-99-156	110V AC Valve Assembly (Nema 7)

ITEM 1 MAIN VALVE BODY OPTIONS

Part Number	Description
01-2000-01-150	Main Valve Body
01-2000-01-154	Main Valve Body (Nema 7)

ADAPTER BLOCK OPTIONS

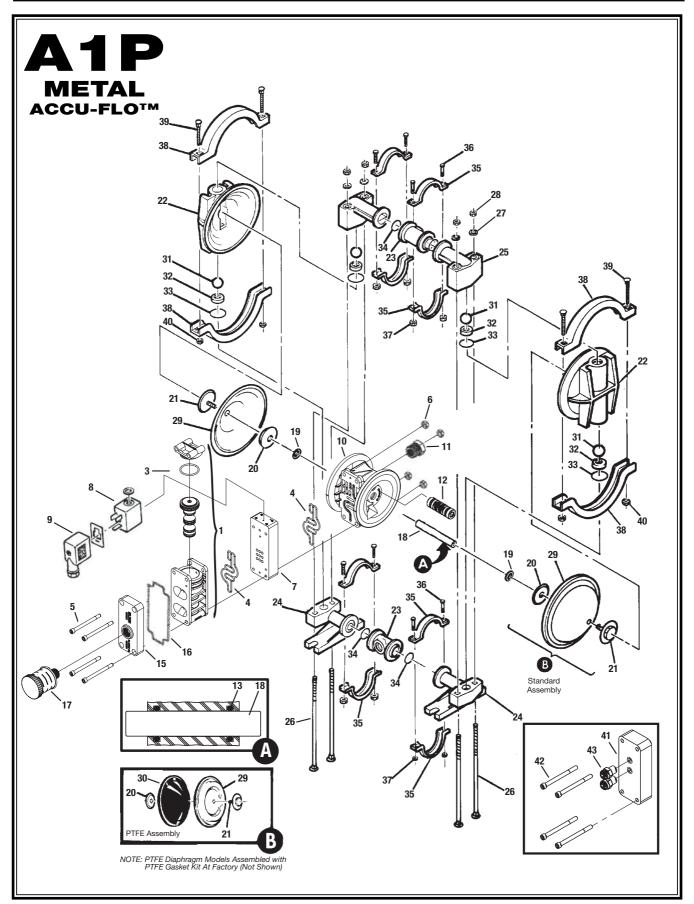
Part Number	Description
01-2150-32	UHMW PE
01-2150-13	Acetal
01-2150-20	Polypropylana

ITEM 2 COIL OPTIONS

Pump Models Designating Specialty Code #	Part Number	Description
150	00-2110-99-150	24V DC Coil
151	00-2110-99-151	24V AC Coil
153	00-2110-99-153	24V AC, NEMA 7 Coil
154	00-2110-99-154	24V DC, NEMA 7 Coil
155	00-2110-99-155	110V AC Coil
156	00-2110-99-156	110V AC NEMA 7 Coil
157	00-2110-99-157	International 24V DC** 7 Coil

^{**}International 24V DC Coil is explosion proof per PTB File #EX-91.C.2027

EXPLODED VIEW/PARTS LISTING



A1 METAL ACCU-FLO™ — DC

				Rubber-Fitted			PTFE-Fitted	Food Pro	ocessing	
		Qty.							A1P/SSPPP/0125	A1P/SSPPP/0125
		Per	A1P/AAPPP/0150	A1P/SSPPP/0150	A1P/HHPPP/0150	A1P/AAPPP/0150	A1P/SSPPP/0150	A1P/HHPPP/0150	Saniflex™	PTFE
Item	Part Description	Pump	P/N							
1	Pro-Flo® Air Valve Assembly¹	1	01-2010-20	01-2010-20	01-2010-20	01-2010-20	01-2010-20	01-2010-20	01-2010-20	01-2010-20
2	End Cap	1	01-2332-20	01-2332-20	01-2332-20	01-2332-20	01-2332-20	01-2332-20	01-2332-20	01-2332-20
3	O-Ring, End Cap	1	01-2395-52	01-2395-52	01-2395-52	01-2395-52	01-2395-52	01-2395-52	01-2395-52	01-2395-52
4	Gasket, Air Valve	2	01-2615-52	01-2615-52	01-2615-52	01-2615-52	01-2615-52	01-2615-52	01-2615-52	01-2615-52
5	Screw, HSHSC, Air Valve 1/4-20	4	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03	01-6000-03
6	Nut, Hex, 1/4"-20	4	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03
7	Pro-Flo® Solenoid Spacer	1	01-2160-XX							
8	24 Volt DC Coil	1	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150	00-2110-99-150
9	Terminal Connector	1	00-2130-99	00-2130-99	00-2130-99	00-2130-99	00-2130-99	00-2130-99	00-2130-99	00-2130-99
10	Center Section Assembly	1	01-3140-20	01-3140-20	01-3140-20	01-3140-20	01-3140-20	01-3140-20	01-3140-20	01-3140-20
11	Bushing, Reducer	1	01-6950-20	01-6950-20	01-6950-20	01-6950-20	01-6950-20	01-6950-20	01-6950-20	01-6950-20
12	Pilot Sleeve Plug Assy	1	01-2285-99	01-2285-99	01-2285-99	01-2285-99	01-2285-99	01-2285-99	01-2285-99	01-2285-99
13	Glyd™ Ring II	2	01-3220-55	01-3220-55	01-3220-55	01-3220-55	01-3220-55	01-3220-55	01-3220-55	01-3220-55
14	Retaining Ring	2	00-2650-03	00-2650-03	00-2650-03	00-2650-03	00-2650-03	00-2650-03	00-2650-03	00-2650-03
15	Muffler Plate	1	01-3181-20	01-3181-20	01-3181-20	01-3181-20	01-3181-20	01-3181-20	01-3181-20	01-3181-20
16	Gasket, Muffler Plate	1	01-3505-52	01-3505-52	01-3505-52	01-3505-52	01-3505-52	01-3505-52	01-3505-52	01-3505-52
17	Muffler	1	02-3510-99	02-3510-99	02-3510-99	02-3510-99	02-3510-99	02-3510-99	02-3510-99	02-3510-99
18	Shaft, Pro-Flo®	1	01-3810-03	01-3810-03	01-3810-03	01-3810-03	01-3810-03	01-3810-03	01-3810-03	01-3810-03
19	Disc Spring	2	01-6802-08	01-6802-08	01-6802-08	01-6802-08	01-6802-08	01-6802-08	01-6802-08	01-6802-08
20	Inner Piston	2	01-3711-08	01-3711-08	01-3711-08	01-3711-08	01-3711-08	01-3711-08	01-3711-08	01-3711-08
21	Outer Piston	2	01-4570-01	01-4570-03	01-4570-04	01-4570-01	01-4570-03	01-4570-04	01-4570-03	01-4570-03
22	Liquid Chamber	2	01-5000-01	01-5000-03	01-5000-04	01-5000-01	01-5000-03	01-5000-04	01-5000-03	01-5000-03
23	Manifold Tee Section	2	01-5160-01	01-5160-03	01-5160-04	01-5160-01	01-5160-03	01-5160-04	01-5160-03	01-5160-03
24	Inlet Manifold Elbow	2	01-5220-01	01-5220-03	01-5220-04	01-5220-01	01-5220-03	01-5220-04	01-5220-03	01-5220-03
25	Discharge Manifold Elbow	2	01-5230-01	01-5230-03	01-5230-04	01-5230-01	01-5230-03	01-5230-04	01-5230-03	01-5230-03
26	Screw, SHCS (Chamber Bolt)	4	01-6080-03	01-6080-03	01-6080-03	01-6080-03	01-6080-03	01-6080-03	01-6080-03	01-6080-03
27	Vertical Bolt Washer	4	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03	01-6730-03
28	Vertical Bolt Nut	4	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6650-03-70	04-6650-03-70
29	Diaphragm	2	*	*	*	01-1010-55	01-1010-55	01-1010-55	01-1010-56	01-1010-55
30	Back-up Diaphragm	2	N/R	N/R	N/R	01-1060-51	01-1060-51	01-1060-51	N/R	01-1060-51
31	Valve Ball	4	*	*	*	01-1080-55	01-1080-55	01-1080-55	10-1080-56	01-1080-55
32	Valve Seat	4	01-1120-01	01-1120-03	01-1120-04	01-1120-01	01-1120-03	01-1120-04	01-1120-03	01-1120-03
33	Valve Seat O-Ring	4	*	*	*	01-1200-55	01-1200-55	01-1200-55	01-1200-56	01-1200-55
34	Manifold O-Ring	4				01-1300-55	01-1300-55	01-1300-55	10-1300-56	01-1300-55
35	Small Clamp Band Assy.	8	01-7100-03	01-7100-03	01-7100-03	01-7100-03	01-7100-03	01-7100-03	01-7100-03	01-7100-03
36	Small Clamp Band Bolt	8	01-6101-03	01-6101-03	01-6101-03	01-6101-03	01-6101-03	01-6101-03	01-6101-03	01-6101-03
37	Small Clamp Band Nut	8	01-6400-03	01-6400-03	01-6400-03	01-6400-03	01-6400-03	01-6400-03	01-6400-03	01-6400-03
38	Large Clamp Band Assy.	4	01-7300-03	01-7300-03	01-7300-03	01-7300-03	01-7300-03	01-7300-03	01-7300-03	01-7300-03
39	Large Clamp Band Bolt	4	01-6070-03	01-6070-03	01-6070-03	01-6070-03	01-6070-03	01-6070-03	01-6070-03	01-6070-03
40	Large Clamp Band Nut	4	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6400-03	04-6650-03-70	04-6650-03-70
41	Adapter Block	1	00-2155-XX							
42	Adapter Block Bolts	4	01-6001-03	01-6001-03	01-6001-03	01-6001-03	01-6001-03	01-6001-03	01-6001-03	01-6001-03
43	Adapter Block Air Fittings	2	00-2170-20	00-2170-20	00-2170-20	00-2170-20	00-2170-20	00-2170-20	00-2170-20	00-2170-20

 $^{^{1}\}text{Air}$ valve assembly includes items 1, 2 and 3.

0150 Specialty Code = 24V DC Solenoid

NOTE: For pumps fitted with wing nuts and tri-clamp connections please contact factory for exploded view drawing and part numbers.

All boldface items are primary wear parts.

Spacer & Adapter Block Options

Material	Spacer	Adapter
Acetal	01-2160-13	01-2155-13
Polypropylene	01-2160-20	01-2155-20

Coil Options

Pump Models Designating Specialty Code #	Part Number	Description
150	00-2110-99-150	24V DC Coil
151	00-2110-99-151	24V AC Coil
153	00-2110-99-153	24V AC, NEMA 7 Coil
154	00-2110-99-154	24V DC, NEMA 7 Coil
155	00-2110-99-155	110V AC Coil
156	00-2110-99-156	110V AC NEMA 7 Coil
157	00-2110-99-157	International 24V DC Coil**

^{**}International 24V DC Coil is explosion proof per PTB File #EX-91.C.2027

^{*}Refer to end of section for elastomer options.

⁰¹²⁵ Specialty Code = SanifloFDA w/24V DC Solenoid

SECTION 10A

ELASTOMER OPTIONS

A1 Metal Pumps

MATERIAL	DIAPHRAGM P/N	VALVE BALL P/N	VALVE SEAT P/N	VALVE SEAT O-RING P/N	MANIFOLD O-RING P/N
Polyurethane	01-1010-50	01-1080-50	N/A	01-1200-50	01-1300-50
Buna-N	01-1010-52	01-1080-52	N/A	01-1200-52	01-1300-52
Viton®	01-1010-53	01-1080-53	01-1120-53*	N/A	N/A
Wil-Flex™	01-1010-58	01-1080-58	N/A	01-1200-58	01-1300-58
Saniflex™	01-1010-56	01-1080-56	N/A	01-1200-56	01-1300-56
PTFE	01-1010-55	01-1080-55	N/A	01-1200-55	01-1300-55
Stainless Steel	N/A	N/A	01-1120-03	N/A	N/A
Aluminum	N/A	N/A	01-1120-01	N/A	N/A
Alloy C	N/A	N/A	01-1120-04	N/A	N/A

^{*}Use in conjunction with seat spacer (P/N 01-1120-21-500).

SECTION 10B

ELECTRICAL INFORMATION

NEMA 4 / UL / CSA

		Voltage ±10%			Current (A)			
	AC				Α	C		
	DC			Power (W)	DC			Resistivity
Part Number		60 Hz	50 Hz	±10%		Inrush	Holding	(Ω)
00-2110-99-150	24	48	44	4.8	.20	.20	.20	121
00-2110-99-151	12	24	22	4.8	.40	.40	.40	32
00-2110-99-155	60	120	110	4.8	.08	.08	.06	840

NEMA 7 / UL / CSA

		Voltage ±10%		Current (A)				
	AC]	AC				
	DC			Power (W)	DC			Resistivity
Part Number		60 Hz	50 Hz	±10%		Inrush	Holding	(Ω)
00-2110-99-153	12	24	22	7	.60	.55	.32	19
00-2110-99-154	24	48	44	7	.30	.30	.18	75
00-2110-99-156	60	120	110	7	.12	.13	.06	475

INTERNATIONAL EXPLOSION PROOF / CENELEC / PTB FILE # EX-91.C.2027

			Current (A)		
	DC Voltage ±10%	Power (W)			Resistivity
Part Number		±10%	Inrush	Holding	(Ω)
00-2110-99-157	24	3.3	.135	.135	177



WARRANTY

Each and every product manufactured by Wilden Pump and Engineering, LLC is built to meet the highest standards of quality. Every pump is functionally tested to insure integrity of operation.

Wilden Pump and Engineering, LLC warrants that pumps, accessories and parts manufactured or supplied by it to be free from defects in material and workmanship for a period of five (5) years from date of installation or six (6) years from date of manufacture, whichever comes first. Failure due to normal wear, misapplication, or abuse is, of course, excluded from this warranty.

Since the use of Wilden pumps and parts is beyond our control, we cannot guarantee the suitability of any pump or part for a particular application and Wilden Pump and Engineering, LLC shall not be liable for any consequential damage or expense arising from the use or misuse of its products on any application. Responsibility is limited solely to replacement or repair of defective Wilden pumps and parts.

All decisions as to the cause of failure are the sole determination of Wilden Pump and Engineering, LLC.

Prior approval must be obtained from Wilden for return of any items for warranty consideration and must be accompanied by the appropriate MSDS for the product(s) involved. A Return Goods Tag, obtained from an authorized Wilden distributor, must be included with the items which must be shipped freight prepaid.

The foregoing warranty is exclusive and in lieu of all other warranties expressed or implied (whether written or oral) including all implied warranties of merchantability and fitness for any particular purpose. No distributor or other person is authorized to assume any liability or obligation for Wilden Pump and Engineering, LLC other than expressly provided herein.

PLEASE PRINT OR TYPE AND FAX TO WILDEN

PUMP INFORMATION			
Item #	Serial #		
Company Where Purchased			
YOUR INFORMATION			
Company Name			
Industry			
Name		Title	
Street Address			
City	State	Postal Code	Country
Telephone Fax	E-mail		Web Address
Number of pumps in facility?	Number of V	/ilden pumps?	
Types of pumps in facility (check all that apply): Diaphragr	m Centrif	ugal 🗌 Gear	Submersible Lot
Other			
Media being pumped?			
How did you hear of Wilden Pump?	Trade Sho	w Interi	net/E-mail Distribut
Other			